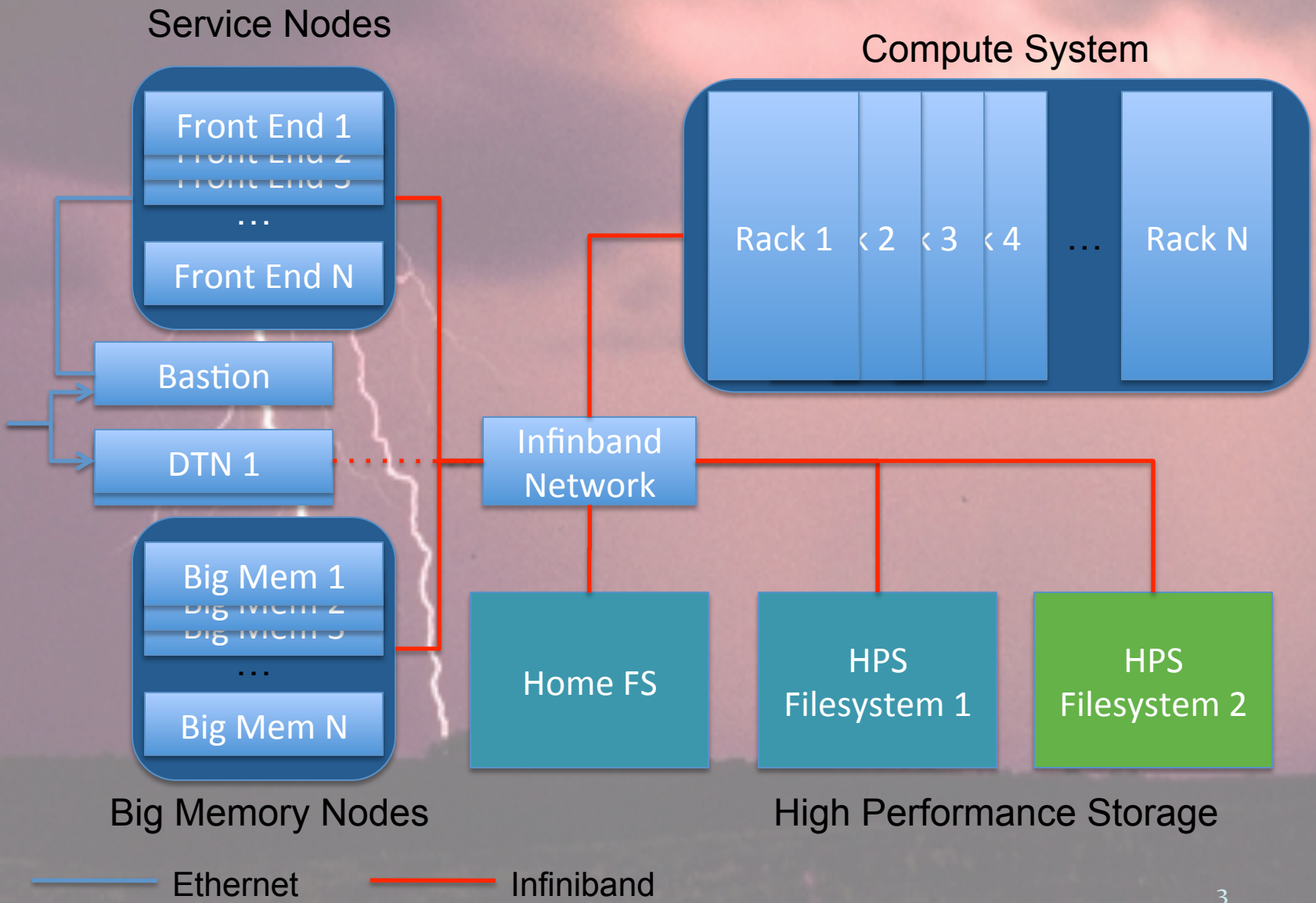
Zeus Users' Meeting

January 18, 2012

Agenda

- Overview
  - Zeus Architecture
  - Documentation
- Accessing Zeus
- Access Dates

Zeus System Architecture



Zeus Architecture

Zeus is similar in architecture to tJet. The chipset and interconnect components are the same. The software stack is based on Linux with some additional features from SGI.

Subsystem	Size
Service Nodes	8
Big Memory Nodes	6
Compute Nodes	2304
Compute Cores	27648
Total Flops	383 TF
Total Data Transfer Nodes	2+
HPS Capacity	5.8 PB
HPS Performance	> 50 GB/s

Scratch File System Policy

- The high performance storage (HPS) file systems (/scratch1 and /scratch2) are fast, parallel, and scalable. They are to be used for model runs and storing model results. The following describes how these file systems are maintained.
  - The HPS file systems are allocated on a project basis
  - Quotas will be enforced on a per project basis
  - These file systems are scratch, and are not backed up
    - Users should use the HSM (HPSS) to store critical data
  - The HPS file systems will not be scrubbed
    - If projects desire this, they can implement it themselves and build their own policies

Zeus Documentation

- NESCC Information site
  - http://rdhpcs.noaa.gov/nescc/
- FAQ Site
  - Click on FAQ link on left side –or-
  - https://nesccdocs.rdhpcs.noaa.gov/wiki/index.php/Main_Page
    - There may be a warning about a certificate

Accessing Zeus

- ssh zeus.rdhpcs.noaa.gov
  - Your first time you must create a pass phrase
  - A request for your certificate to be signed will be automatically submitted
- Over the next two weeks we will notify you to login to Herc. This is only to create your certificate (please only login unless you are an early user)
- To login to herc:
  - ssh zeus.rdhpcs.noaa.gov
  - Enter your pin and code from your token
  - Enter your pass phrase when prompted
  - When prompted hit ^C and then enter tfe1 (Herc front end)

Access Dates

- New help system is available now:
  - Two new aliases:
    - Zeus: rdhpcs.zeus.help@noaa.gov
    - HPSS: rdhpcs.hpss.help@noaa.gov

Access Dates

- Current Schedule is for February 1
  - This looks very realistic
  - We will have things as solid as possible, but there may be changes as we learn more about the best configuration
- Herc (the Test and Development System is available to a limited set of users now)

Thank You!
now…
Open Forum